

## Patent Abstracts of Japan

PUBLICATION NUMBER : 2000338115  
 PUBLICATION DATE : 08-12-00

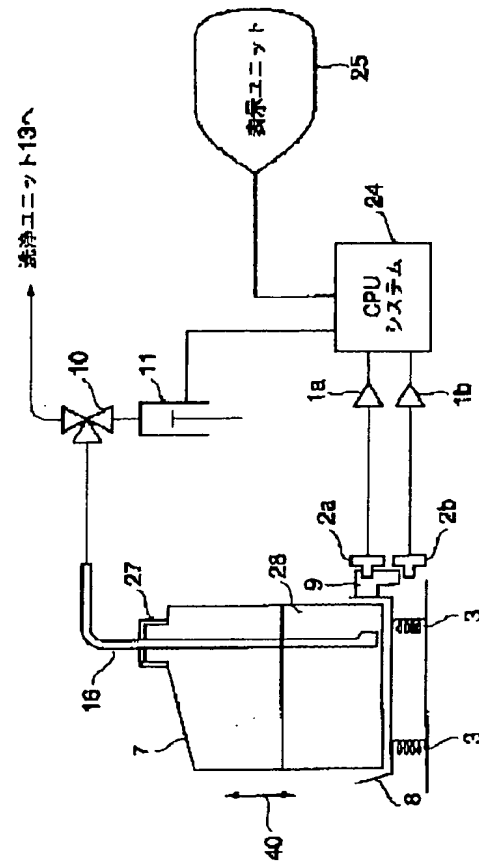
APPLICATION DATE : 24-05-99  
 APPLICATION NUMBER : 11143868

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INT.CL. : G01N 35/10 B67C 3/00 G01F 23/20  
 G01G 17/04 G01N 35/00

TITLE : REMAINING LIQUID AMOUNT  
 DETECTING DEVICE



**ABSTRACT :** **PROBLEM TO BE SOLVED:** To provide a remaining liquid amount detecting device facilitating an estimation of an exchange time of solution by measuring a remaining amount of the solution from the weight of a liquid container, and preventing the liquid container from being left as empty of the liquid.

**SOLUTION:** When a liquid container 7 filled with detergent solution in an almost full state is set on a pedestal 8, optical sensors 2a, 2b turn on. When the detergent solution is used, a solution suction pump 11 is operated, and a count of a counter 21b is incremented each time of the operation. The remaining amount of the detergent solution is calculating by subtracting a used amount from the amount at the set time. When the remaining amount of the detergent solution becomes less than 90%, the optical sensor 2b turns off, and the remaining amount of the detergent solution is indicated on a display unit 15 from this time on. When the remaining amount of the detergent solution becomes less than one tenth, the sensor 2a turns off, and sampling a specimen is stopped, and an error information is displayed on the display unit 25.

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